

What is claimed is:

1. A method for manufacturing a light-transmitting module having a light-transmitting device, an electrically conductive carrier, a lens and a housing, said housing enclosing said light-transmitting device, said carrier
5 and said lens, said light-transmitting device having a first electrode and a second electrode and transmitting light by supplying a current between said first and second electrodes, said method comprising the steps of:

mounting a sub-mount and a first post on said conductive carrier, said sub-mount mounting said light-transmitting device thereon, said first post
10 being made of insulating material with a metal film thereon;

electrically connecting said first electrode of said light-transmitting device to said metal film on said first post; and

testing said light-transmitting device by supplying said current through a first probe touching said metal film on said first post.

15 2. The method according to claim 1, wherein said sub-mount is made of insulating material having a first surface with a metal film thereon, said light-transmitting device being mounted on said sub-mount such that said first electrode of said light-transmitting device faces and is in contact with
20 said metal film on said first surface of said sub-mount.

3. The method according to claim 2, wherein said electrically connecting step further comprises a step of electrically connecting said second electrode of said light-transmitting device to said carrier.

25 4. The method according to claim 2, wherein said mounting step

further comprises a step of mounting an electrically conductive second post on said carrier, and said electrically connecting step further comprises a step of electrically connecting said second electrode of said light-transmitting device to said second post.

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5. The method according to claim 1, subsequently to said testing step, further comprises steps of

installing said carrier, on which said light-transmitting device and said first post are mounted, into said housing; and

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mounting said lens on said carrier and aligning said lens with said light-transmitting device by supplying said current to said light-transmitting device through said first probe touching said metal film on said first post.

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6. The method according to claim 6, subsequently to said alignment of said lens, further comprises steps of:

cutting said electrical connection between said first electrode of said light-transmitting device and said metal film on said first post;

mounting a driver for driving said light-transmitting device on said carrier; and

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electrically connecting said driver to said first electrode and said second electrode of said light-transmitting device.

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7. The method according to claim 1, wherein said sub-mount is made of electrically conductive material and said light-transmitting device is mounted on said sub-mount such that said second electrode of said light-transmitting device faces and is in contact with said sub-mount.

8. The method according to claim 7, wherein said mounting step further comprises a step of mounting a third post on said carrier, said third post being made of insulating material having another metal film thereon, and
5 said electrically connecting step further comprises a step of electrically connecting said first electrode of said light-transmitting device to said metal film provided on said first post through said other metal film provided on said third post.

10 9. The method according to claim 8, after said electrically connecting step between said first electrode of said light-transmitting device and said metal film provided on said first post, further comprises steps of:

cutting said electrical connection between said metal film provided on said first post and said other metal film on said third post;

15 mounting a driver for driving said light-transmitting device on said carrier; and

electrically connecting said driver to said other metal film provided on said third post.

20 10. The method according to claim 1, wherein said first electrode is a cathode electrode of said light-transmitting device and said second electrode corresponds to an anode electrode of said light-transmitting device.